

United States Patent and Trademark Office



APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/630,608	07/30/2003	Jared Lynn Randall	9009	8676	
27752	7590 04/07/2004	EXAMINER		INER	
	CTER & GAMBLE CO	DENTZ, BERNARD I			
INTELLECTUAL PROPERTY DIVISION WINTON HILL TECHNICAL CENTER - BOX 161			ART UNIT	PAPER NUMBER	
6110 CENTER HILL AVENUE			1625	1625	
CINCINNATI, OH 45224			DATE MAILED: 04/07/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
*	10/630,608	RANDALL, JARED LYNN			
Office Action Summary	Examiner	Art Unit			
	Bernard Dentz	1625			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	B6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on					
2a) ☐ This action is FINAL . 2b) ☑ This	This action is FINAL . 2b)⊠ This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ☐ Claim(s) 1-25 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-25 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary				
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 4-2004. 	Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te atent Application (PTO-152)			

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Application/Control Number: 10/630,608

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The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 8 and 11-25 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In claim 8 and 24 "agents" should be agent. In claim 11 "Knoevenagel Reaction adduct is inapt. The formamide based reagent undergoes a Knoevenagle type reaction in applicants' process. See p. 3, lines 4-6 of the specification. Claim 19, line 3 "heat" should be - -heated- -. In claim 11 in the first structural formula it is the ethyl ester that is intended.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Randall etal, US patent 5,703,231 in view of Maurer et al US Patent 4,695,646. The instant reaction involves a secondary amino nitrogen, which has a hydrogen attached and which is at the end of substituted 3-carbon chain which is attached to a benzene ring, nucleophillically attacking an ortho carbon on said a benzene ring, said ortho carbon having an ethoxy group attached, to form a quinolone carboxylic acid. A silylating agent is used to cause said cyclization.

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Randall et al discloses the analogous reaction, the only difference being that it is disclosed that a leaving group is attached to said ortho carbon. It is then defines said leaving group X as any art-recognized leaving group. It specifically discloses some typical leaving groups but alkoxy (e.g. methoxy or ethoxy) are not among them. If it could be shown that alkoxy was a common leaving group in this general quinolone forming cyclization, albeit one in which a cyclizing reagent different than a silylating agent were used, then one of ordinary skill would have been motivated to use a common alkoxy group like ethoxy as the leaving group of Randall et al. in Randall et al's process.

Maurer et al involves the same type of cyclization of the same type of starting material teaches alkoxy as the leaving group. See Formula (I) at col. 1 combined with col. 4, line 49 to col. 5, line 28. Note specifically col 5, lines 7-9 where it is stated that the cyclization is done in the presence of acid acceptors with elimination of alcohol. Thus it is shown that alkoxy is a common leaving group in this quinolone forming cyclization and thus one of ordinary skill would have been motivated to use ethoxy as the leaving group in the Randall et al process.

The preliminary steps recited in independent claim 10 are admittedly old. See the specification. Performing the ring closure on the mixture of quinolone intermediates in claim 11 at p. 24 wherein the first ingredient is the common one as shown by Randall et al and the second is an obvious one as shown above would have been obvious.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bernard Dentz whose telephone number is 571-272-0683. The examiner can normally be reached on Mon-fri from 8AM to 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jospeh McKane, can be reached on 571 272-0699. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

B. Dentz

4-2-2004.

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